Aparna Gudivada
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Education

University of Utah,Salt Lake City,UT   Aug 2023 - Apr 2025
Masters in Computer Science   *CGPA: 3.78/4*

VR Siddhartha Engineering College,Vijayawada,India   Jul 2017 - Jul 2021
Bachelors in Information Technology   *CGPA: 9.0/10*

Skills

Languages: Python, Java, C#, C++, C, HTML, CSS, Bootstrap,JavaScript, PHP, Typescript, R Programming, Kotlin

Technologies & Tools: Angular, ReactJS, Node.js, Django, PostgreSQL, MySQL, NOSQL, NextJS, MongoDB, ASP.NET, Spring MVC, Blockchain, Machine Learning, LLM, LangChain, Mobile App Development, AWS, Azure, Visual Studio Code, Jupyter Notebook, Git, Android Studio, Flask, GitHub, Jira, Bit Bucket, NetBeans, IntelliJ IDE, Eclipse, Gradle

Work Experience

Mizu Inc, Lindon, Utah   May 2025 - Present
Full Stack Developer

- Developed and maintained a comprehensive service management application using Angular, ASP.NET Core and SQL server implementing complex features including customer management, scheduling, invoicing and real time reporting.
- Implemented robust third-party integrations with QuickBooks Online using OAuth 2.0, enabling secure data synchronization across multiple locations with role-based access control and strict user permission management.
- Built data access layer using Entity Framework Core, developed complex LINQ queries for customer management and invoice processing and optimized database performance by 30%.
- Worked with customers and sales from multiple companies to identify issues and deliver timely feature updates, resulting in a 15% increase in user satisfaction scores.

Intermountain Health, Salt Lake City   May 2024 - Dec 2024
Software Engineer Intern

- Collaborated with cross-functional teams in an Agile environment, resulting in a 20% increase in development efficiency, and ensuring the timely delivery of high-quality software.
- Developed and maintained backend services with Node.js and Express for the Preadmission Testing (PAT) application, enhancing patient status visibility and tracking for over 100 nurses and improving operational efficiency.
- Implemented CRUD operations and data validations with PostgreSQL and Sequelize ORM, optimizing database performance and ensuring secure data management with transactions and integrity checks.
- Designed a responsive user interface in React with React Hooks and Redux for state management, reducing manual task completion time by 40% and significantly improving the user experience for healthcare professionals.
- Integrated RESTful API for seamless communication between the frontend and backend, enabling real-time data synchronization and significantly improving application response time.
- Created and executed comprehensive unit tests using Jest achieving over 90% code coverage for critical components, which enhanced code reliability.

Accenture, Hyderabad, India   Aug 2021 - Jul 2023
Software Development Engineer

- Led the migration from AngularJS to Angular 13, successfully resolving data binding issues and maintaining high code quality. Addressed 95% of accessibility issues, significantly enhancing web interface inclusivity and usability.
- Proficiently built dynamic and interactive user interfaces using HTML, CSS, and Angular framework, significantly enhancing overall user experience, engagement, and product usability.
- Designed and developed backend APIs in ASP.NET Core implementing RESTful services for business-critical modules such as claims processing, ensuring secure and efficient data exchange with the frontend.
- Achieved 90% code coverage by implementing unit and end-to-end testing with Jasmine,ensuring delivery of high-quality, reliable code.
- Actively contributed to streamlining processes across all phases of the Software Development Life Cycle (SDLC), including requirements gathering, design, development, testing, deployment, and maintenance.
- Utilized NgRx for state management and RxJS for asynchronous programming, enhancing application performance and scalability which led to a 25% improvement in responsiveness.
- Integrated CI/CD pipelines using Azure DevOps, automating build, test, and deployment processes, which reduced deployment times leading to more reliable software releases.
- Used Git for version control, ensuring efficient workflows and seamless code integration across teams.

APSAC, Vijayawada, India
Research Intern

<div align="right">May 2021 - Jul 2021</div>

- Collaboration with a multidisciplinary team of 5 to automate the precise estimation of vegetation areas within specified regions, significantly improving efficiency and accuracy.
- Reduced processing time by 30% through the development of an optimized workflow for downloading Sentinel-2 satellite data via Sentinel Hub and Sentinel Sat APIs.
- Improved data quality and vegetation cover quantification by applying data preprocessing techniques using Python libraries and specialized vegetation indices like NDVI, achieving a 25% increase in accuracy.
- Developed visualizations and reports to communicate findings effectively to stakeholders, enhancing decision-making processes related to environmental monitoring.

Project Work

Comparison of Feature Reduction Techniques in Remote Sensing Images [Publication]

- Led a project utilizing machine learning algorithms for real-time change detection in remote sensing images, achieving a 20% improvement in accuracy through Factor Analysis, Principal Component Analysis, and K-means clustering for dimensionality reduction.

TrackMyJobs

- Deployed a full-stack web application using the MERN stack (MongoDB, Express.js, React, Node.js) that supports over 1,000 active users in efficiently managing job applications.
- Introduced real-time updates and secure backend services, reducing application management time, and created visualizations to improve data insights.

MediBot

- Built an AI chatbot using Retrieval-Augmented Generation (RAG) and FAISS vector database to analyze a dataset of over 1,000 drug side effects, accurately identifying whether reported symptoms are common for specific medications.
- Designed and deployed an intuitive Streamlit UI, enhancing user engagement and delivering insights into symptom-drug correlations.